

III. CLAIM AMENDMENTS

Q3 1. (Original) Apparatus for conducting a plurality of transactions to dispense postage, the apparatus comprising:

a memory for storing accounting data concerning postage dispensation, the accounting data varying with the transactions; and

a plurality of processors, each processor being associated with a different subset of the transactions, each processor verifying the accounting data for at least the transactions in the subset associated with the processor.

2. (Original) The apparatus of claim 1 wherein the accounting data includes an amount of a fund available for the postage dispensation.

3. (Original) The apparatus of claim 1 wherein the accounting data includes a cumulative amount of the postage dispensation.

4. (Original) The apparatus of claim 1 wherein the accounting data includes indices for identifying the transactions.

5. (Original) The apparatus of claim 1 wherein the memory includes a non-volatile memory.

6. (Original) The apparatus of claim 1 wherein each processor also stores records concerning the transactions in the subset associated with the processor.

7. (Original) Apparatus for generating a code for authenticating a postage indicium representing a plurality of data elements, the apparatus comprising:

an interface for receiving at least one of the data elements;

a number of processors; and

a mechanism for selecting one of the processors to generate the code by performing at least a second one of the plurality of computations being dependent on the at least one of the data elements, the number of processors being a function of a first duration for performing the first one of the computations and a second duration for performing the second one of the computations.

8. (Original) The apparatus of claim 7 wherein the number of processors is a function of a ratio of the first duration to the second duration.

9. (Original) The apparatus of claim 7 wherein each one of the processors is selected periodically.

10. (Original) The apparatus of claim 7 wherein the first one of the computations includes generation of a random number.

11. (Currently Amended) The apparatus of claim 7 wherein the first one of the computations includes a computation based on a value of the random number.


12. (Original) The apparatus of claim 7 wherein the second one of the computations includes a computation based on a value of a private key in accordance with a cryptographic algorithm.

13. (Original) The apparatus of claim 7 wherein the code includes a digital signature.

14. (Original) The apparatus of claim 13 wherein the first one of the computations includes a computation of a signature value r in accordance with a digital signature algorithm (DSA).

15. (Original) The apparatus of claim 14 wherein the second one of the computations includes a computation of a signature value s in accordance with the DSA.

16. (Currently Amended) Apparatus for conducting a sequence of transactions for generating postage indicia, each postage indicium containing a plurality of data elements, the apparatus comprising:

 an interface for receiving a postage value ~~in~~ for each transaction of the sequence;

a first processor for generating an ensemble of information for each transaction containing data derived from at least the postage value for each transaction;

a plurality of second processors; and

a mechanism for providing ~~the~~ each ensemble to a selected one of the second processors, the selected second processor generating at least one of the data elements of a postage indicium from the ensemble.

17. (Original) The apparatus of claim 16 wherein the data is also derived from postage values in selected transactions prior to the transaction.

18. (Original) The apparatus of claim 17 wherein the number of selected transactions is a function of the number of second processors.

19. (Original) The apparatus of claim 16 wherein the ensemble of information also contains an index identifying the transaction.

20. (Original) The apparatus of claim 16 wherein the ensemble of information also contains second data concerning an increased amount of a fund available for postage dispensation.

21. (Original) The apparatus of claim 16 wherein the at least one of the data elements includes a code for authenticating the postage indicium.

22. (Original) The apparatus of claim 21 wherein the code includes a digital signature.

23. (Original) The apparatus of claim 22 wherein the ensemble of information also contains a subset of the data elements, the digital signature being derived from the subset of the data elements.

24. (Original) A method for conducting a plurality of transactions to dispense postage, the method for use in an apparatus including a plurality of processors, each processor being associated with a different subset of the transactions, the method comprising:

storing accounting data concerning postage dispensation, the accounting data varying with the transactions; and

verifying by each processor the accounting data for at least the transactions in the subset associated with the processor.

25. (Original) The method of claim 24 wherein the accounting data includes an amount of a fund available for the postage dispensation.

26. (Original) The method of claim 24 wherein the accounting data includes a cumulative amount of the postage dispensation.

27. (Original) The method of claim 24 wherein the accounting data includes indices for identifying the transactions.

28. (Original) The method of claim 24 further comprising storing by each processor records concerning the transactions in the subset associated with the processor.

29. (Original) A method for generating a code for authenticating a postage indicium representing a plurality of data elements, the method for use in an apparatus including a number of processors, the method comprising:

receiving at least one of the data elements; and

selecting one of the processors to generate the code by performing at least a second one of the computations being dependent on the at least one of the data elements, the number of processors being a function of a first duration for performing the first one of the computations and a second duration for performing the second one of the computations.

30. (Original) The method of claim 29 wherein the number of processors is a function of a ratio of the first duration to the second duration.

31. (Original) The method of claim 29 wherein each one of the processors is selected periodically.

32. (Original) The method of claim 29 wherein the first one of the computations includes generation of a random number.

33. (Currently Amended) The method of claim 29 wherein the first one of the computations includes a computation based on a value of ~~the~~a random number.

34. (Original) The method of claim 29 wherein the second one of the computations includes a computation based on a value of a private key in accordance with a cryptographic algorithm.

35. (Original) The method of claim 29 wherein the code includes a digital signature.

36. (Original) The method of claim 35 wherein the first one of the computations includes a computation of a signature value *r* in accordance with a DSA.

37. (Original) The method of claim 36 wherein the second one of the computations includes a computation of a signature value *s* in accordance with the DSA.

38. (Currently Amended) A method for conducting a sequence of transactions for generating postage indicia, each postage indicium containing a plurality of data elements, the method for use in an apparatus including a first processor and a plurality of second processors, the method comprising:

receiving a postage value ~~in a~~for each transaction of the sequence;

generating by the first processor an ensemble of information for each transaction containing data derived from at least the postage value for each transaction; and

providing ~~the~~each ensemble to a selected one of the second processors, the selected second processor generating at

least one of the data elements of a postage indicium from the ensemble.

39. (Original) The method of claim 38 wherein the data is also derived from postage values in selected transactions prior to the transaction.

40. (Original) The method of claim 39 wherein the number of selected transactions is a function of the number of second processors.

41. (Original) The method of claim 38 wherein the ensemble of information also contains an index identifying the transaction.

42. (Original) The method of claim 38 wherein the ensemble of information also contains second data concerning an increased amount of a fund available for postage dispensation.

43. (Original) The method of claim 38 wherein the at least one of the data elements includes a code for authenticating the postage indicium.

44. (Original) The method of claim 43 wherein the code includes a digital signature.

45. (Original) The method of claim 44 wherein the ensemble of information also contains a subset of the data elements, the digital signature being derived from the subset of the data elements.